

- Self-explanatory software makes all Ultramat's very easy to operate and fast to set-up

ULTRAMAT

CNC-Universal Cylindrical Grinders

GENERAL VIEW



FEATURES

- Broad application spectrum for flexible and universal use
- Diameter up to 300mm, with 650 or 1000mm between centres
- Choice of control systems between Easy software and Touchscreen or Fanuc® 210i CNC
- Easy control can be manually operated using two electronic handwheels
- Precision Ballscrews on both X and Z axes with Fanuc® drives, plus Heidenhain® Absolute nano linear scales
- Guideways have hand scraped Turcite® coating with automatic central lubrication
- Choice of Plain straight approach, Universal or Twin wheel wheelheads
- Belt-driven internal grinding spindle with 2.2 kW motor on universal wheelhead
- Automatically elevating dresser for internal grinding



CONTROL OPTIONS



Ultramat Easy

- Self-explanatory Easy Touchscreen control
- Manual or automatic modes
- 1 to 20 linked grinding cycles
- Compensated dressing / dressing on demand options
- Auto cycles: plunge, traverse, face, taper and thread grinding
- Profile dress and grind cycles
- Re-grinding cycle for simple dimensional correction



Ultramat CNC

- Windows® based Fanuc® 210i control
- Operator-friendly, graphics-supported programming
- Program summary in spreadsheet format
- Complete grinding cycle selection, including Thread grinding, Contour grinding and Contour dressing
- Colour TFT screen
- Optional CNC radial dressing unit

SPECIFICATION

Centre height	mm	160	Universal wheelhead		
Max. length between centres	mm	650/1000	Grinding wheel dia. LH/RH	mm	350 (400)/300 (350)
Max. weight between centres	kg	100	Motor power	kW	4
Z-Axis			Peripheral wheel speed	m/s	33
Travel	mm	750/1150	Workhead (Fixed or Swivelling options available)		
Max. table speed	m/min	12	Speed range	min-1	0 – 660
Min. programmable increment	mm	0.001(Easy)/0.0001(CNC)	Spindle taper		5MT
X-Axis			Continuous output torque	Nm	36
Travel	mm	260	Swivel angle (optional)		-15° – +90°
Max. traverse speed	m/min	6	Tailstock		
Min. programmable increment	mm	0.001(Easy)/0.0001(CNC)	Poppet taper		3MT
Straight approach wheelhead			Centre travel	mm	30
Grinding wheel diameter	mm	450	Taper fine adjustment (optional)	µm	+/- 100
Motor power	kW	7.5	Space required width/depth app.	m	w 3.96 (4.43) - d 2.77
Peripheral wheel speed	m/s	45	Weight (approx.) (650/1000)	kg	5300/6200

* Subject to technical amendments

OPTIONS

- Extra centre height
- Infinitely variable B axis
- 4 wheelhead options
- Taper control tailstock with micro adjustment
- Peripheral speed up to 63 m/s
- Thread grinding
- GAP-Control to reduce air grinding
- Diameter dimension control
- Length positioning
- HF-Internal grinding spindles
- Remote diagnostics



Certificate No.
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